

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 9132 (1979): Table, Operation, Folding Type [MHD 12: Hospital Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 9132 - 1979

Indian Standard

SPECIFICATION FOR TABLE, OPERATION, FOLDING TYPE

UDC 615.478.62 : 684.44.182.63



© Copyright 1980

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Price Rs. 5.00

Gr 2

April 1980

Indian Standard

SPECIFICATION FOR TABLE, OPERATION, FOLDING TYPE

Hospital Equipment Sectional Committee, CPDC 14

Chairman

DR L. R. PATHAK

Representing

Directorate General of Health Services, New Delhi

Members

PROF C. BALAKRISHNAN

Post-Graduate Institute of **Medical Education & Research**, Chandigarh

SHRI DARAYUS BHATHENA

Nat Steel Equipment Pvt Ltd, Bombay

SHRI K. D. HATHIRAM (Alternate)

COL DALJIT SINGH

Ministry of Defence (DGAFMS)

SHRI K. M. DARGAR

Development Commissioner, Small Scale Industries (Ministry of Industry), New Delhi

DR S. GNANADESIKAN

Directorate of Medical Education, Government of Tamil Nadu, Madras

JOINT DIRECTOR OF INDUSTRIES (CSPO)

Directorate of Industries, Government of Maharashtra, Bombay

ASSISTANT DIRECTOR OF INDUSTRIES (CSPO) (Alternate)

SHRI V. S. KALBAG

Tempo Industrial Corporation, Bombay

SHRI K. MANIVANNAN

Director of Industries, Government of Haryana, Chandigarh

MEDICAL OFFICER, CENTRAL RAILWAY

Railway Board (Ministry of Railways)

DIVISIONAL MEDICAL OFFICER, BOMBAY (Alternate)

SHRI S. MUTHIAN

Directorate of Industries & Commerce, Government of Tamil Nadu, Madras

SHRI K. N. RAMASWAMY

Directorate General of Technical Development, New Delhi

SHRI V. K. SABHARWAL

Ministry of Defence (R & D)

WG CDR K. K. SAHAI

Ministry of Defence (DGI)

SHRI K. K. GHAI (Alternate)

SHRI BHUSHAN SAWHNEY

Equipwell Corporation, Chandigarh

SHRI R. B. SETH

International Industries, Bombay

(Continued on page 2)

© Copyright 1980

INDIAN STANDARDS INSTITUTION

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(Continued from page 1)

Members

SHRI S. S. SHARMA
SHRI A. S. DUGGAL (Alternate)
SHRI D. M. TALWAR

SHRI BABULAL TOM
SHRI R. N. VIG

SHRI D. N. VIG (Alternate)
SHRI P. K. NARULA (Alternate)

SHRI SOM PRAKASHA,
Director (Consr Prods & Mcd Instrs)

Representing

Metal & Alloys Industries, Tinsukia (Assam)

Government Institute of Surgical Instruments, Technology, Sonapat (Haryana)

Todi Industries Private Ltd, Bombay

Ultradent Pvt Ltd, Bombay; and All India Instrument Manufacturers and Dealers Association, Bombay

Ultradent Pvt Ltd, Bombay

All India Instrument Manufacturers and Dealers Association, Bombay

Director General, ISI (Ex-officio Member)

Secretary

SHRI D. K. AGRAWAL

Deputy Director (Consr Prods & Mcd Instrs), ISI

Operation Tables Subcommittee, CPDC 14:2

Convener

BRIG S. THIRUMALAI

Ministry of Defence (DGAFMS)

Members

PROF J. S. ANAND

Post-Graduate Institute of Medical Education & Research, Chandigarh

Trichur Surgicals, Trichur

Janak Manufacturing Co, Bombay

H. Mukerji & Bancrjee Surgical Pvt Ltd, Calcutta

Employees State Insurance Corporation, New Delhi

DR V. K. SANG (Alternate)

SHRI P. K. NARULA

Narula Udyog (India) Pvt Ltd, New Delhi

SHRI S. K. NARULA (Alternate)

Quality Instruments, Bombay

SHRI M. D. PAREKH

Ministry of Defence (DGI)

WG CDR K. K. SAHAI

SHRI K. K. GHAI (Alternate)

Medicare Equipment Co, Vadodara

SHRI KIRIT M. SHAH

SHRI S. SREEDHAR (Alternate)

DR SHIRISH SHAH (Alternate)

SHRI SHRIKANT V. SHAH

MSCO Private Ltd, Bombay

SHRI SUDHIR V. SHAH (Alternate)

Prince Aly Khan Hospital, Bombay

DR N. A. SIDDIQUI

Central Engineering Organization, Howrah

SHRI R. SINHA

SHRI DILIP KUMAR GANOULY (Alternate)

Ultradent Pvt Ltd, Bombay

SHRI D. N. VIG

SHRI R. N. VIG (Alternate)

Indian Standard

SPECIFICATION FOR TABLE, OPERATION, FOLDING TYPE

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 30 April 1979, after the draft finalized by the Hospital Equipment Sectional Committee had been approved by the Consumer Products and Medical Instruments Division Council.

0.2 Preparation of Indian Standards on hospital equipment has been taken up at the instance of the Advisory Committee for Development of Surgical Instruments, Equipment and Appliances, **Government** of India.

0.3 The folding type operation table is suitable for various gynaecological operations as well as for general surgery, especially in rural areas and military camps. The important requirements of this type of table are robustness, portability and easy manoeuvrability.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS: 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

I. SCOPE

1.1 This standard lays down constructional and performance **requirements** of manually controlled, folding type operation table.

2. MATERIALS

2.1 *Angles, Flats, Strips, and Rods* — mild steel, cold-rolled or hot-rolled quality.

*Rules for rounding off numerical values (*revised*).

2.2 Top — aluminium alloy of suitable composition or stainless steel sheet conforming to Designation 04Cr18Ni10 or 07Cr18Ni9 of Table 1 of IS : 6911-1972* or mild steel sheet hot-rolled or cold-rolled quality.

3. DIMENSIONS

3.1 The following shall be the important dimensions:

Head section	300 x 500 mm
Trunk section	1050 x 500 mm
Leg section	450 x 500 mm
Gap between sections	10 mm
Height from floor to top of table	850 mm

3.2 Deviation off 5 mm shall be permitted on all dimensions except on gap which shall be ± 2 mm.

3.3 Thickness of various sections and table top shall be such that they satisfy performance requirements as mentioned in 5.1 and 5.2.

4. CONSTRUCTION

4.1 Framework — Each member of the table shall be made of a continuous length of mild steel angle sections or flats securely welded or riveted. **The floor** ends of the frame shall be fitted with metal flats or shoes.

4.2 Table Top — The table top shall have sections, namely, head, trunk and leg section. The head and leg sections shall be detachable. The entire top shall be capable of satisfying the following requirements:

- The** head section shall be capable of being raised by 60° up and 45° down.
- The trunk section, which supports the entire body, shall be capable of being raised by 45°.

4.3 The raising and the lowering of the two sections shall be accentuated by the ratchet and hook arrangement.

4.4 A provision shall be made for attachment of optional accessories like anaesthetic screen, saline drip, arm rest, instrument tray, lithotomy rod at hip level on either side of the table.

*Specification for stainless steel plate sheet and strip.

5. PERFORMANCE REQUIREMENTS

5.1 Base — The construction of the table shall *ensure* stability of the base. The four metal flats or shoes shall give sufficient rigidity to the table and the table shall not rock in any direction.

5.2 Table Top — It shall satisfy the requirements given in 5.2.1.

5.2.1 When a load of 750 N (75 kgf approximately) in the form of the sand bag is applied vertically in the middle of the table from a height of 100 mm, there shall be no wobble or damage to the table.

6. WORKMANSHIP AND FINISH

6.1 The various components shall be made accurately to give smooth operations and a good performance.

6.2 The entire construction shall be rigid and sound.

6.3 The entire table shall be capable of folding to a small unit.

6.4 All surfaces shall be well finished and all edges shall be rounded off.

6.5 All the three sections comprising the table top, in their normal position, shall be in one plane.

6.6 The welded joints shall have welds fully penetrating and shall be well finished.

6.7 Corrosive surfaces shall be painted in accordance with 5.1 of IS :4033-1968*.

6.6 The painting shall satisfy adhesion test given in 6.1.1 of IS :4033-1968".

6.9 Stainless steel top shall be passivated.

6.10 The aluminium top shall be anodized.

6.11 The plating, if required, shall be in accordance with Service Grade 2 of IS :1068-1968†.

*General requirements for hospital furniture.

†Specification for electroplated coatings of nickel and chromium on iron and steel (first revision).

7. ACCESSORIES

7.1 The table shall be provided with two lithotomy **rods**.

7.2 The following accessories shall be optional:

- a) Detachable instrument tray; and
- b) Rubber, mattress in three pieces.

8. INSTRUCTION FOR USE AND MAINTENANCE

8.1 The table shall be accompanied by instructions manual giving the following information:

- a) Brief instructions for installation and maintenance and for opening and folding the table, and
- b) Any other information considered necessary by the manufacturer,

9. MARKING

9.1 Each table shall have a name-plate fixed to it showing the following:

- a) Manufacturer's name, initials or recognized trade-mark; and
- b) Any special instruction for safe handling of the table.

9.1.1 Each table may also be marked with the **ISI** Certification Mark.

NOTE -The use of the **ISI** Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The **ISI** Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by **ISI** and operated by the producer. **ISI** marked products are also continuously checked by **ISI** for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the **ISI** Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

10. PACKING

10.1 Each table shall be packed in a well cushioned sturdy case to stand rough handling during transit or as agreed to between the supplier and the purchaser.